

WHAT IS CLAIMED IS:

1. A method for manufacturing an electron source substrate having a construction capable of arranging an anode member to confront through a spacer, comprising the steps of:

forming a plurality of electrode pairs over the substrate;

forming conductive films by applying liquid droplets containing a conductive substance between the individual electrodes of the electrode pairs with a plurality of ink jet devices; and

forming an electron emission portion in the conductive film,

wherein at the time of applying the liquid droplets, at least for the electrode pairs arranged in the vicinity of the fixed portion of the spacer, there is used an ink jet device of a kind different from that for the remaining electrode pairs.

2. The method according to Claim 1,

wherein the ink jet device which is used at least for the electrode pairs arranged in the vicinity of the fixed portion of the spacer has a higher performance than that for the remaining electrode pairs.

3. The method according to Claim 2,

wherein the ink jet device which is used at least for the electrode pairs arranged in the vicinity of the fixed portion of the spacer has a higher drop placement accuracy than that for the remaining electrode pairs.

4. The method according to Claim 2,

wherein the ink jet device which is used at least for the

electrode pairs arranged in the vicinity of the fixed portion of the spacer has a higher drop volume accuracy than that for the remaining electrode pairs.

5. The method according to Claim 1,

wherein the ink jet device which is used at least for the electrode pairs arranged in the vicinity of the fixed portion of the spacer has a nozzle arrangement different from that for the remaining electrode pairs.

6. The method according to Claim 1,

wherein the ink jet device which is used at least for the electrode pairs arranged in the vicinity of the fixed portion of the spacer has a smaller nozzle number than that for the remaining electrode pairs.

7. The method according to Claim 1,

wherein the liquid droplets are substantially simultaneously applied to the electrode pairs arranged in the vicinity of the fixed position of the spacer and the remaining electrode pairs.

8. The method according to Claim 1,

wherein there is used a unit, in which the individual heads of a plurality of kinds of ink jet devices are connected.

9. The method according to Claim 8,

wherein in the used unit, the ink jet devices for the remaining electrode pairs are individually fixed on the two sides of the ink jet device for the electrode pairs arranged in the vicinity of the fixed position of the spacer.

10. The method according to Claim 9,

wherein the liquid droplets are applied while the unit or the substrate are being moved relative to each other along the spacer arranging direction.

11. A method for manufacturing an electron source substrate to be used in an image display device, comprising the steps of:

forming a plurality of electrode pairs over the substrate;

forming conductive films by applying liquid droplets containing a conductive substance between the individual electrodes of the electrode pairs with a plurality of ink jet devices; and

forming an electron emission portion in the conductive film,

wherein at the time of applying the liquid droplets, at least for the electrode pairs arranged at the screen central portion, there is used an ink jet device of a kind different from that for the electrode pairs arranged at the screen end portion.

12. The method according to Claim 11,

wherein the ink jet device which is used at least for the electrode pairs arranged at the screen central portion has a higher performance than that for the electrode pairs arranged at the screen end portion.

13. The method according to Claim 12,

wherein the ink jet device which is used at least for the electrode pairs arranged at the screen central portion has a higher drop placement accuracy than that for the electrode pairs arranged at the screen end portion.

14. The method according to Claim 12,

wherein the ink jet device which is used at least for the electrode pairs arranged at the screen central portion has a higher drop volume accuracy than that for the electrode pairs arranged at the screen end portion.

15. The method according to Claim 11,

wherein the ink jet device which is used at least for the electrode pairs arranged at the screen central portion has a smaller nozzle number than that for the electrode pairs arranged at the screen end portion.

16. The method according to Claim 11,

wherein the liquid droplets are substantially simultaneously applied to the electrode pairs arranged at the screen central portion and the electrode pairs arranged at the screen end portion.

17. A method for manufacturing an electron source substrate, comprising the steps of:

forming a plurality of electrode pairs over the substrate;

forming conductive films by applying liquid droplets containing a conductive substance between the individual electrodes of the electrode pairs with a plurality of kinds of ink jet devices; and

forming an electron emission portion in the conductive film.

18. A method for manufacturing an electron source substrate, comprising the steps of:

forming a plurality of electrode pairs over the substrate;

forming conductive films by applying liquid droplets containing a conductive substance between the individual electrodes of the electrode pairs with a unit, in which the individual heads of a plurality of kinds of ink jet devices are connected; and

forming an electron emission portion in the conductive film.

19. A method for manufacturing an electron source substrate, comprising the steps of:

forming a plurality of electrode pairs over the substrate;

forming conductive films by applying liquid droplets containing a conductive substance between the individual electrodes of the electrode pairs with a plurality of ink jet devices; and

forming an electron emission portion in the conductive film,

wherein at the time of applying the liquid droplets, for the electrode pairs arranged at a predetermined region, there is used an ink jet device of a kind different from that for the electrode pairs arranged at the remaining regions.